

Purpose of Presentation

- Addressing flooding is a major City initiative
- Past presentations have focused on structural responses to this issue
- This presentation will look at what City is doing and can do to improve its Community Rating System rating to assist homeowners in combating the impact of flooding
 - Every increase in rating represents another \$46
 annual savings to households on average

Background

1933

Norfolk has long history of flooding

1938







Background

Increased flooding events in recent years

- Frequency
- Severity
- Combination of soil subsidence and sea level rise



Background

- A national trend
 - More than 1,000 federally declared flood events over the past 50 years
 - 75% of federally declared disasters in the last 5 years

National Flood Insurance Program

- Federally subsidized flood insurance
 - Weighing steps to reduce federal exposure to flood insurance claims
 - Looking for localities to improve
 Community Rating by requiring more than minimum standards

Community Rating System

- Evaluation of actions by localities to reduce risk
- Incentives for localities to be proactive in planning, emergency preparedness, stormwater management
- Communities rated from Class 9 to Class 1
 - Norfolk currently rated CRS Class 9
 - 5% reduction in flood insurance premiums
 - Average savings per household of \$46 annually

Structural Activities

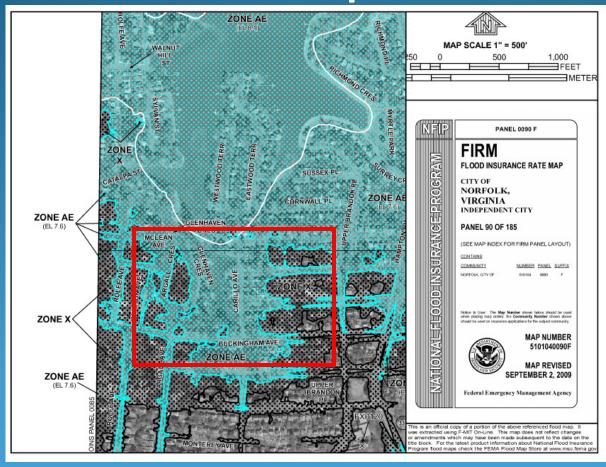
- Certification of Downtown floodwall
- Fugro studies
 - The Hague
 - Pretty Lake
 - City wide
- Wetland restoration





Procedural Activities - Complete

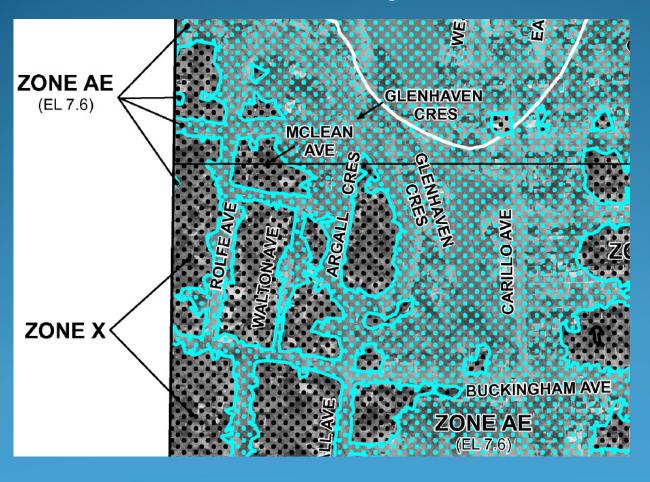
Work with IT to improve flood maps



FEMA Flood Map

Procedural Activities - Complete

• Work with IT to improve flood maps



FEMA Flood Map

Procedural Activities - Complete

• Work with IT to improve flood maps



City Flood Map

Procedural Activities - Potential

- Increase number of Certified Floodplain Managers
 - **Currently only two citywide**
 - Arranged certification training in Norfolk this winter
- Improve documentation of properties within Special Flood Hazard Areas
 - Digitize all elevation certificates
 - Map elevation data provided

Procedural Activities - Potential

- Work with Emergency Preparedness, IT,
 Public Works to create warning and response system
 - Use technology to notify citizens of flooded areas
 - Flooding website
 - Reverse 911
 - Social media

Planning Activities - Complete

Adopted Regional Hazard Mitigation Plan

Public Works developing Stormwater
 Management Plan

Planning Activities - Potential

- Develop Floodplain Management Plan
 - Requires creation of Program for Public Information to guide public outreach
 - Requires creation of citizen and staff committee
 - City Public Information Officer must be a member

Regulatory Activities - Complete

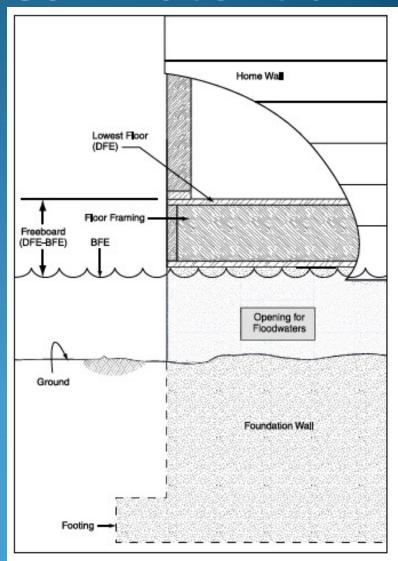
- Current regulations meet minimum requirements
 - Include adoption of the Flood Insurance Rate Maps
 - Require new construction within the AE and VE flood zones to meet heightened standards
 - Elevate/flood proof additions
 - Substantial improvements require entire structure be brought into compliance

Regulatory Activities - Potential

- Eliminate ability to waive open space standards
 - Recommended as part of Character District regulations
- Develop Coastal Zone A regulations
 - Will be mandatory by 2015
 - Primarily affects coastal areas

Regulatory Activities - Potential

- Increase finished floor elevation (Design Flood Elevation, DFE) by 1 foot
 - Would increase DFE from 1 foot to 2 feet above base flood elevation
 - Would reduce potential homeowner damages from flood events



Conclusion

- Norfolk considered a leader nationally in addressing flooding issues
- Can take additional actions to reduce exposure to flood events
- Request Council direction on pursuing initiatives

